H.264 Hidden Recorder Board (HVR-Lite)

User Manual

Ver. 1.0.0

Model number: 3194071

Thank you for purchasing our H.264 Hidden Recorder Board (HVR-Lite). Please read this manual before installation.
For customer support, contact your dealer, keep your Invoice for further support.

Do not open/modify the device, as it may cause damage to the unit and void the Warranty. For internal repairs, consult your dealer or an Authorized Service Center.

Do not use any accessories other than what comes with the unit otherwise, it would void the warranty.

Protect from humidity. Do not put it in water and be careful to protect it from rain, sea water, or high humidity environment etc.

Protect from high temperatures
To avoid damage or mis-operation of the device, only use in temperature of 0 ~ +40°C.

Do not bring the device suddenly from a hot to a cold place, or vice versa. This may cause damaged to the inside of the unit by creating condensation.

EU Environmental Protection
The symbol of crossed-out garbage shows that this product should not be treated as household waste, and it falls into the category of ***electric /electronic*** equipment for recycling. This electronic device should not be disposed in a regular trash. We strongly advice you to contact related authorization before you dispose this product.

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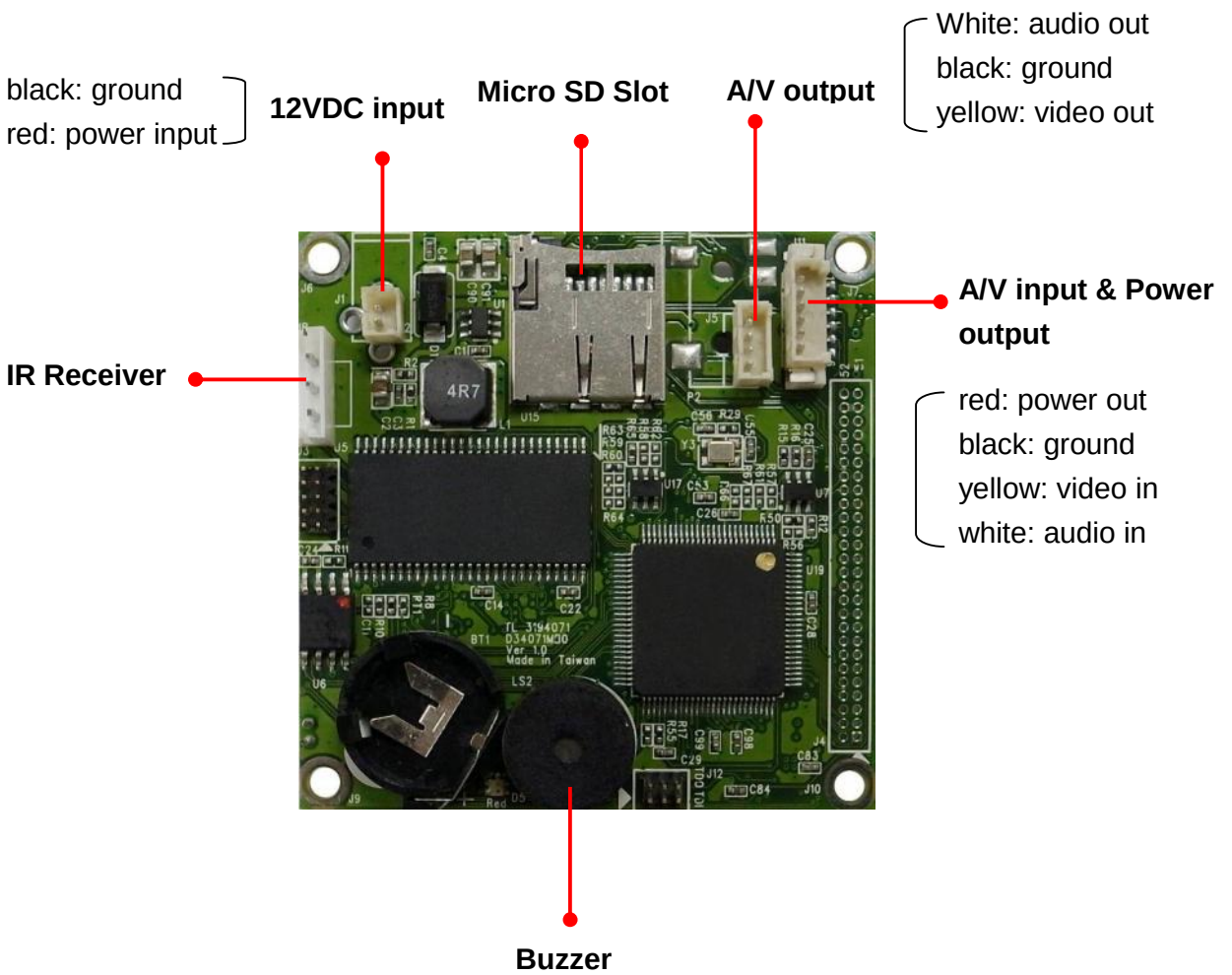
Package contains

Main unit x 1
IR remote control x 1
Cable accessory x 1
CD (Software, user manual) x 1

Diagram



Cable Introduction

IR Cable	Power cable
AV output cable	AV input/ Power output cable

Operation

1. Connect 12VDC power supply to #3194071.
2. Connect AV in/Power out cable to camera. #3194071 will supply 12VDC to camera.
3. Insert micro SD card to #3194071.
   * DVR will detect memory card automatically.
   * For storage, #3194071 will auto-format Micro SD card if the original Micro SD card format is different. Please make sure Micro SD card has done backup before inserted to #3194071.
   * If #3194071 shows “NO SD”, please turn off and check Micro SD card.
4. Once #3194071 is powered on, recording is factory preset at motion detection.
   * It can be reset as continuous recording, having schedule, and alarm recording through OSD menu
   * For panic recording, please press on the remote control.
5. Press on the remote control to get into playback menu.

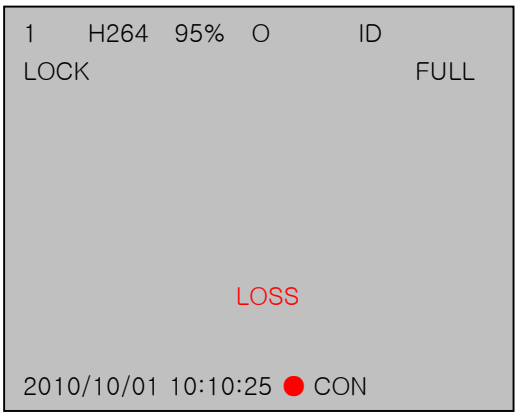
IR Remote Controller

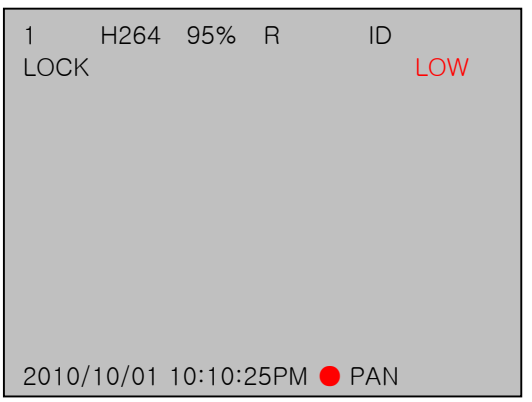
Button	Function	Description
		Universal password: UP/UP/DOWN/DOWN/+/+/-/-
●	Panic Record	Start to Record manually. Press again to cancel recording mode
KEYPAD	KEYPAD	Virtual keypad input
LOCK	Lock	Key lock
MENU	MENU/Exit	Menu mode or Exit to last page
▲ ▼ ◀ ▶	UP (2)/ DOWN (4)/ LEFT (5)/ RIGHT (3)	
OK	Enter	Confirm
+ −	Plus (6) ; Minus (7)	Adjust Value
▶	Play	Into playback menu or start to play
❚❚	Pause (8)	Pause playback, press again to play frame by frame
◀	Re-wind	Rewind playback
▶▶	Fast forward (0)	Fast forward play 2/4/8 times
◀◀	Fast rewind (9)	Fast rewind play2/4/8 times
■	Stop	Stop playback

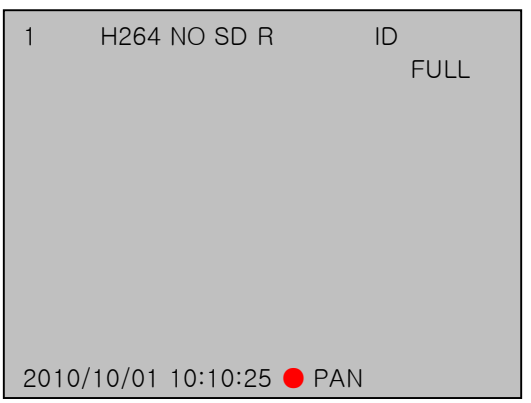
OSD Operation

* When you get into MENU or PLAY mode, it would need password if #3194071 is in key lock mode. Please enter password (default: **1234**) and press OK . If password is correct, user can get into MENU or PLAY mode. If it is incorrect, the password will go back to the first digit. (Universal password: ▲ ▲ ▼ ▼ + + − −)

LIVE/RECORD Instruction

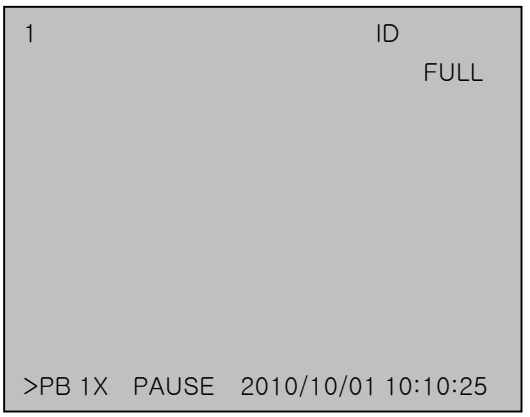






1. CH01: Channel 1
2. H264: H.264 compression
3. 95%: Micro SD Card free capacity
4. NO SD: Micro SD card not inserted
5. R: Recycledly writing Micro SD card. If Micro SD card is full, #3194071 overwrites the oldest data (appear only when Micro SD card is inserted)
6. O: Write once to Micro SD card. If Micro SD card is full, #3194071 will stop recording (appear only when Micro SD card is inserted)
7. 00000001: Camera ID
8. LOCK: Key locked
9. LOSS: Camera input loss, it will go back to blue screen
10. 2010/10/01: Date
11. 12:14: 50: Time (24H format)
12. 12:14: 50AM: Time (12H format if shows AM or PM)
13. ●: Recording mode
14. CON: Continuous recording mode
15. ALARM: Alarm recording mode
16. MOTION: Motion recording mode
17. NONE: Not recording
18. PAN: Panic recording mode
19. FULL: Battery status (shows only in battery mode, but if use adapter, will also show FULL)
20. LOW: Battery status (shows only in battery mode, please charge the battery if shows LOW)

PLAYBACK Instruction

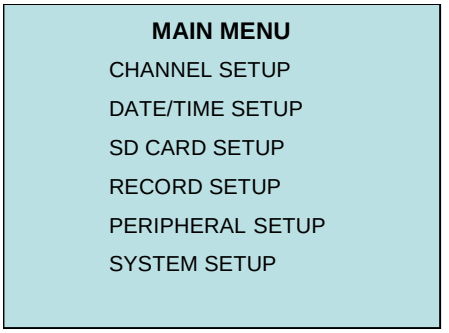


1. ID CAM_01: the ID of recording
2. >: Playback
3. <: Rewind playback
4. PB: Playback mode
5. 1X: Speed of playback, 1X/ 2X/ 4X/ 8X
6. PAUSE: Pause palyback
7. 2010/10/01: Date of recording
8. 10:10:25: Time of recording
9. FULL: Battery status (shows only in battery mode)

OSD Menu Structure Tree

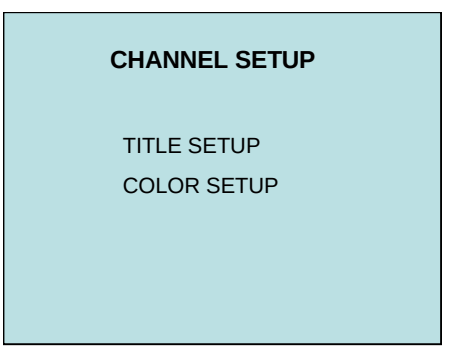
- MENU → I. CHANNEL SETUP
  - TITLE SETUP
  - COLOR SETUP
- → II. DATE/TIME SETUP
- → III. SD CARD SETUP
  - SD INFORMATION
  - SD REC MODE
  - SD FORMAT
- → IV. RECORD SETUP
  - RECORD MODE
  - CONTINUOUS RECORD
  - MOTION RECORD
  - PANIC RECORD
  - ALARM RECORD
- → VI. PERIPHERAL SETUP
  - BUZZER SETUP
    - VIDEO LOSS
    - MOTION
    - BEEP TIME
  - ALARM SETUP
    - ALARM INPUT
    - RELAY OUTPUT
  - AUDIO SETUP
- → VII. SYSTEM SETUP
  - DVR ID
  - FACTORY DEFAULT
  - FIRMWARE UPGRADE
  - PASSWORD SETUP

MENU OPERATION

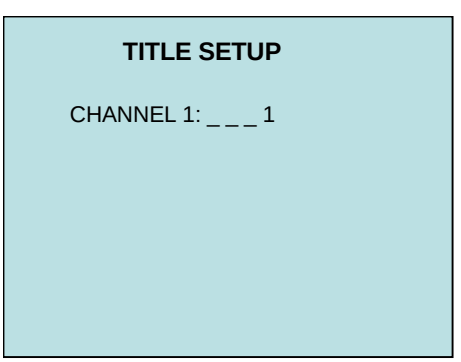


1. Press to enter MAIN MENU
2. Press to select item
3. Press to enter the selected item

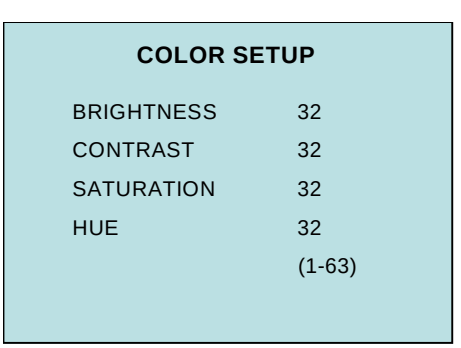
I. CHANNEL SETUP



1. Press to select item
2. Press to enter the selected item



1. Press to change value
2. Press to change cursor



1. Press to select item
2. Press to change value

II. DATE/TIME SETUP

DATE/TIME SETUP
DISPLAY FORMAT:YY/MM/DD
TIME FORMAT: 12H
YEAR: 2000
MONTH: 01
DAY: 06
HOUR: 21
MINUTE: 06
DAYLIGHT SAVING TIME SETUP

1. Press ▲ ▼ to select item
2. Press + − to change value

* Display Format: YY/MM/DD, MM/DD/YY, or DD/MM/YY.
* Time Format: 12H/ 24H

DAYLIGHT SAVING TIME SETUP
TURN: OFF
START TIME
MONTH: 04
DAY: 02
HOUR: 00
END TIME
MONTH: 11
DAY: 04
HOUR: 00

1. Press ▲ ▼ to select item
2. Press + − to change value

III. SD CARD SETUP

SD CARD SETUP

SD INFORMATION
SD REC MODE: OVERWRITE
SD FORMAT
AUTO FORMAT: ON

1. Press ▲ ▼ to select item

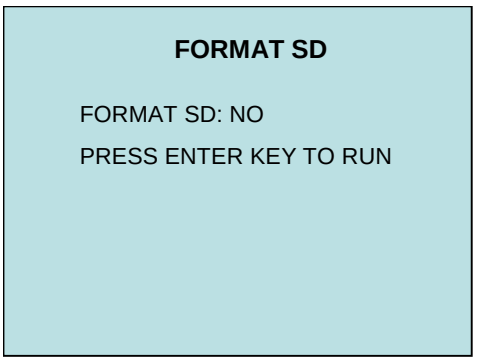
*** SD CARD INFORMATION:** Press OK to enter

*** SD REC MODE**: Press + − to change mode (FULLSTOP:OVERWRITE)

*** SD FORMAT:** Press OK to enter

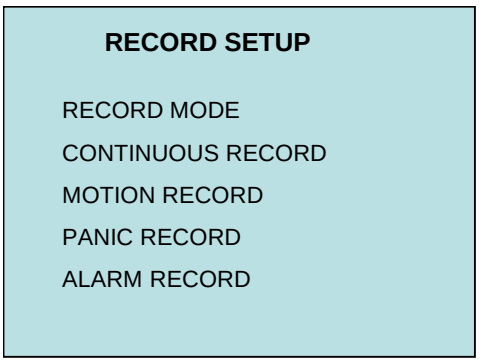
SD CARD INFORMATION

TOTAL: 1.84 GB
REMAIN: 1.83 GB (100%)

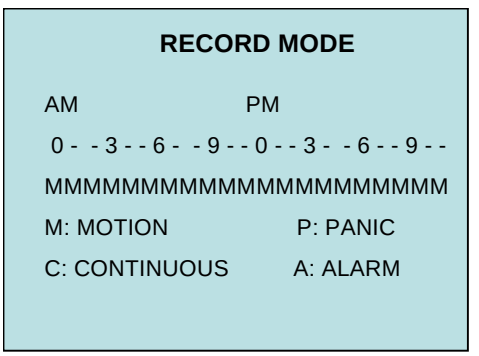


1. Press + − to change mode

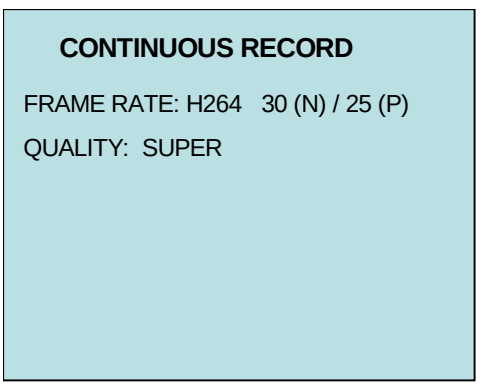
IV. RECORD SETUP



1. Press ▲ ▼ to select item
2. Press OK to enter the selected item



1. Press ◄ ► to change cursor
2. Press + − to change value



1. Press + − to change value
2. Frame rate adjustable by users: H264 30(N)/25(P); H264 15(N)/12(P); H264 8(N)/6(P)
3. Quality adjustable by users: Super/ Low/ STD/ High

MOTION RECORD

FRAME RATE: H264 30 (N) / 25 (P)
QUALITY: SUPER
SENSITIVITY: HIGH
POST-RECORD: 10 SEC
PRE-RECORD: ON

1. Press + − to change value
2. Frame rate adjustable by users: H264 30(N)/25(P); H264 15(N)/12(P); H264 8(N)/6(P)
3. Quality adjustable by users: Super/ Low/ STD/ High
4. Sensitivity adjustable by users: High/ Med/ Low

PANIC RECORD

FRAME RATE: H264 30 (N) / 25 (P)
QUALITY: SUPER
PRE-RECORD: ON

1. Press + − to change value
2. Frame rate adjustable by users: H264 30(N)/25(P); H264 15(N)/12(P); H264 8(N)/6(P)
3. Quality adjustable by users: Super/ Low/ STD/ High

ALARM RECORD

FRAME RATE: H264 30 (N) / 25 (P)
QUALITY: SUPER
POST-RECORD: 10 SEC
PRE-RECORD: ON

1. Press + − to change value
2. Frame rate adjustable by users: H264 30(N)/25(P); H264 15(N)/12(P); H264 8(N)/6(P)
3. Quality adjustable by users: Super/ Low/ STD/ High

VI. PERIPHERAL SETUP

PERIPHERAL SETUP

BUZZER SETUP
ALARM SETUP
AUDIO SETUP

1. Press ▲ ▼ to select item
2. Press OK to enter selected item

BUZZER SETUP

VIDEO LOSS	:	ON
MOTION	:	OFF
BEEP TIME	:	02 SEC
		(2~6 SEC)

1. Press to select item
2. Press to change value

ALARM SETUP

ALARM INPUT

RELAY OUTPUT

1. Press to select item
2. Press to enter selected item

ALARM INPUT

ALARM	STATUS	RELAY OUT
1	N.C.	ON

1. Press to select item
2. Press to change value
3. ALARM STATUS: N.C./ N.O.

[N.O.]: Normal Open
[N.C.]: Normal Close

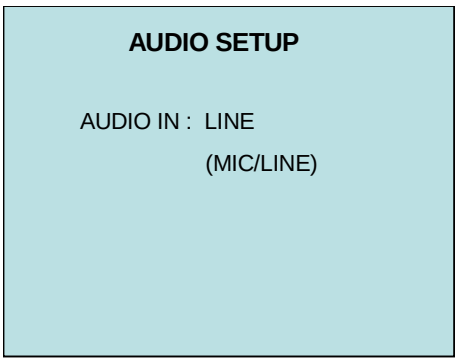
RELAY OUT

RELAY OUT TIME: 10 SEC
(10~60 SEC)

MOTION : NO

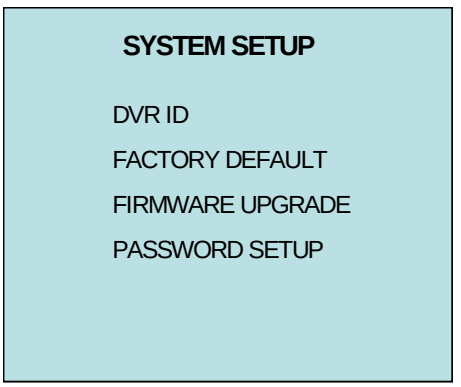
VIDEO LOSS: NO

1. Press to select item
2. Press to change value

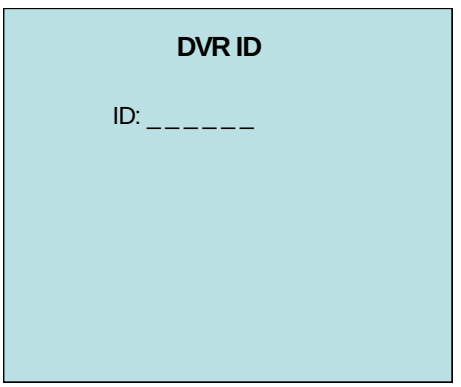


1. Press + − to change value

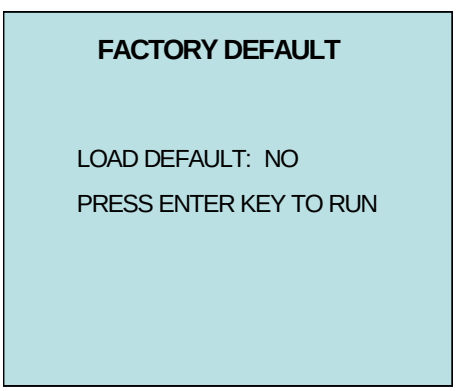
VII. SYSTEM SETUP



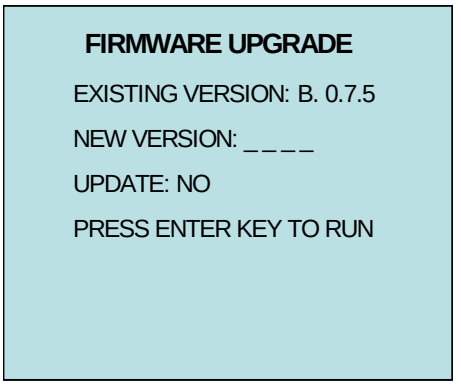
1. Press ▲ ▼ to select item
2. Press OK to enter selected item



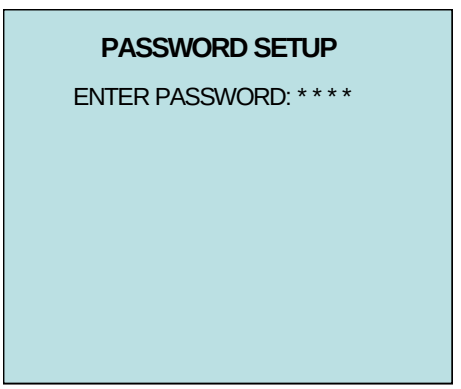
1. Press ◄ ► to change cursor
2. Press + − to change value



1. Press + − to change value

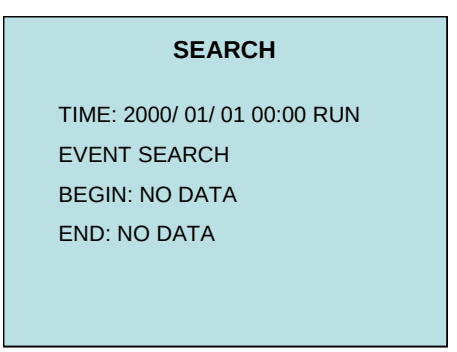


1. Press ▲ ▼ to select item
2. Press + − to change value



1. Press ◄ ► to change cursor
2. Press + − to change value

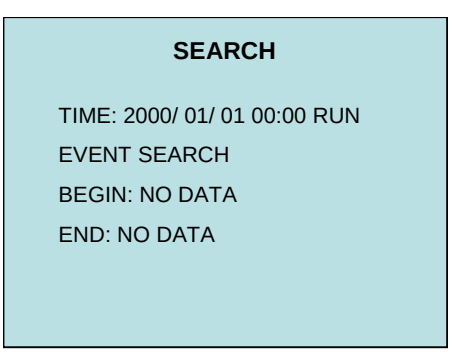
PLAYBACK MODE



In the Playback screen

1. Press ▶ to enter SEARCH MENU
2. Press ▲ ▼ to select item & + − to change value
3. Press OK to run

TIME SEARCH



TIME SEARCH

1. Press + − to change value
2. Press OK to run
3. Press ■ to go back to SEARCH
4. Press ☰ to go back to Live Video

EVENT SEARCH

NO	YY/MM/DD	HH:MM:SS	MODE
0001	09/12/17	12:11:00	C
0002	09/12/17	12:11:07	P
0003	09/12/17	12:11:12	A

M: MOTION P: PANIC
C: CONTINUOUS A: ALARM

EVENT SEARCH

1. Press ▲ ▼ to select item

2. Press OK to playback the event

Firmware Upgrade

Step1**:** Please insert Micro SD Card into #3194071. If the original format of micro SD card is different, the device will automatically format Micro SD card.

Step2**:** Please insert Micro SD card into computer and computer will get the following information:

Step3**:** Please copy the new ROMCODE.ISO to Micro SD card and replace the old one (ROMCODE.ISO)

Step4**:** Please insert Micro SD card into #3194071.

Step5**:** Go to “FIRMWARE UPGRADE” section

FIRMWARE UPGRADE

EXISTING VERSION: B.0.7.7

NEW VERSION: B. 0. 7. 8

UPDATE: NO

PRESS ENTER KEY TO RUN

Step6: You can see the version on “NEW VERSION” item.

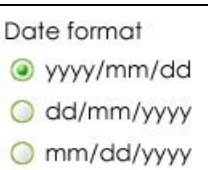
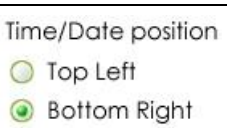
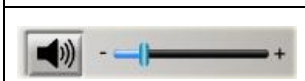
Step7: Press and select “ UPDATE: YES” by pressing .

Press to upgrade firmware.

NOTES :

1. During firmware upgrade, ISP 1%.....100% will be shown on the screen. Please do not shut down, turn off the device or remove Micro SD card. File may not be completely updated under this condition. In addition, old file may be damaged.
2. The system will update the new version and display the progress information. When it is finished, it will automatically reboot.

PC Player

	Search Files		Backup DVR file
	Login		Select Path
	Enter		Backup format
	Set Start Time		Set End Time
	Export backup file		Cancel
	Time/ Date on		Time/ Date format
	Time/ Date top left		Change account and password
	Multiply 32 times the original speed		Save JPEG picture
	Print		Enhance the resolution
	Audio adjust		Mute

Playback control bar:

Stop	Pause	Last	-1/2X	-2X	-1X	1X	2X	1/2X	Next

File information:

* Computer Requirement: Dual Core CPU or above , 1GB RAM or above
* Operation System Requirement: Windows XP or above
* **PC has to be installed with Sound Card, which makes PC have audio function. Otherwise, PC may not be able to run the software.**

Operation procedure

Search Files

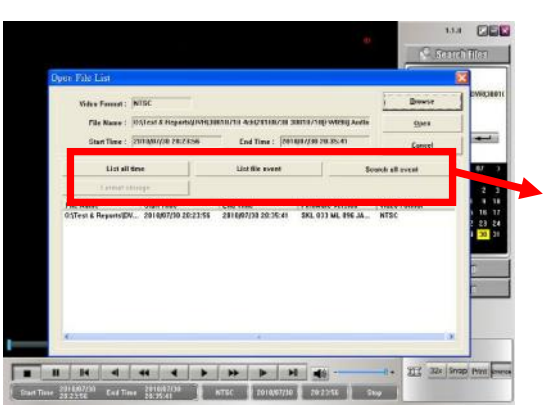
Click

Press

and then press

.

Select a folder with DVR files and press “OK”



Double click the selected recording file to playback or click the selected recording file and press “Open” to playback.

File searching method:

* List all time : list all the recording sessions in the folder you browse.
* List file event : list the event which you select in “List all time”
* Search all event : list all the events in the folder you browse (max. 1000 events)

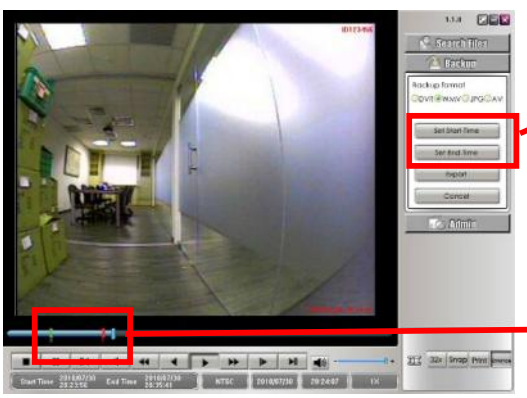
* Format storage : Format SD card easily

Backup Files

Press

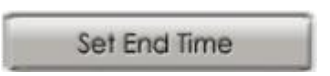
and choose backup format (DVR/ WMV/ AVI/ JPG) and choose backup channel.

* Backup as DVR format: Can only backup four channels
* Backup as WMV/ JPG format: backup four channels or individual channel
* Backup as AVI format: backup four channels or individual channel; backup resolution as CIF or D1.



During the playback, you can press

to set start time to backup file.

Then, press 

to set end time to backup file.

* Green bar: backup start time
* Red bar: backup end time

Press

to export backup file to PC, or

Press

to cancel Backup Start time and End time

Playback Files

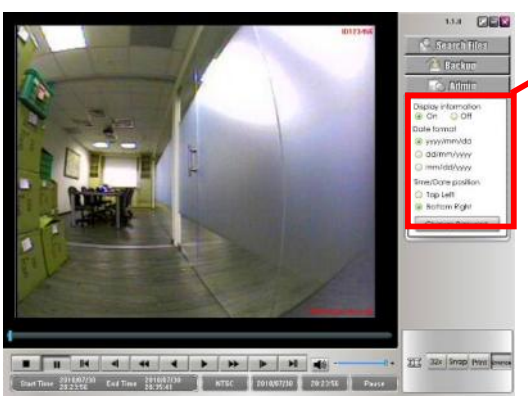
Move the mouse cursor to the place you want to enlarge. Right click to zoom in. Right click again to get back to the original scene.

Admin

Click

and key in account and password.

Default: root/ root



* Display information: On/Off
* Date format: yyyy/mm/dd
  dd/mm/yyyy
  mm/dd/yyyy
* Time/Date position: Top Left/ Bottom Right

Press

to change account and password in Admin area.

Specification

#3194071 H.264 Hidden Recorder Board (HVR-Lite)	
Operating System	Non-OS
Video input format	NTSC or PAL (Auto-detect)
Video Compression	H.264
MENU OSD	English
Record Resolution	720x240 (NTSC) / 720x288 (PAL)
Recording Frame Rate	6/8, 13/15, 25/30 fps
Video Recording Mode	Schedule continuous, Schedule motion, Schedule alarm, Panic
Pre-recording	Supported
Post recording	Yes, 10~60 sec
Audio recording	Yes
Playback mode	Via device itself or bundled software on PC
Playback	Fast Forward, Backward: x2/ x4/ x8, Frame by Frame
Playback Search	By Time, By Event
Recording Quality	4 Levels adjustable (Super, High, Normal, Standard)
Time/Date Stamp	Yes
Time Date Stamp Format	(1) yy-mm-dd, (2) dd-mm-yy, (3) mm-dd-yy, 3 formats selectable by OSD
Daylight Saving Time	Yes
Recording Storage	Micro SD card (support SDHC) up to 32GB
Control	IR remote control
Power Supply	12VDC
Power Failure	Auto Recovery
LED	Power (Red)/Recording (Green & Yellow)
Firmware Upgrade	Yes, through Micro SD card
Buzzer	Yes
Operation temperature	0~+50℃
Dimensions	54x54 (mm)